

RESHETINA, S.V., red.; MATVEYEVA, A.Ye., tekhn.red.

[Welded pipes] Truby svarnye. Izd.ofitsial'noe. Moskva,
1960. 24 p. (MIRA 13:8)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Pipe, Steel--Standards)

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Wire nails] Gvozdi provolochnye. Izd.ofitsial'noe. Moskva.
1959. 39 p. (MIRA 13:7)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Nails and spikes--Standards)

RESHETINA, S.V., red.: KONDRAT'YEVA, M.A., tekhn.red.

[Cast iron and secondary ferrous metals] Chuguny i vtorichnye
chernye metally. Izd.ofitsial'noe. Moskva, 1959. 157 p.
(MIRA 13:7)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Cast iron) (Scrap metals)

RESHETINA, S.V., red.; KASHIRIN, A.G., tekhn.red.

[Electric wire from nonferrous metals and alloys] Provoloka iz
tsvetnykh metallov i splavov. Izd.ofitsial'noe. Moskva, 1959.
145 p. (MIRA 13:5)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Electric wire)

RESHETINA, S.V., red.; KASHIRIN, A.G., tekhn.red.

[X-ray apparatus and equipment] Rentgenovskaya apparatura i
armatura. Izd.ofitsial'noe. Moskva, Gos.izd-vo standartov,
1960. 73 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(X rays--Apparatus and supplies)

RESHETINA, S.V., red.; MATVEYEVA, A.Ye., tekhn.red.

[Selection of bent steel shapes] Profili gnutye stal'nye;
sortament. Izd.ofitsial'noe. Moskva, Gos.izd-vo standartov,
1960. 71 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Steel, Structural--Standards)

RESHETINA, S.V., red.; KASHIRIN, A.G., tekhn.red.

[Welding of metals] Svarka metallov. Izd.ofitsial'noe.
Moskva, Gos.izd-vo standartov, 1959. 140 p. (MIRA 13:2)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Metals--Welding) (Welding--Standards)

RESHETINA, S.V., red.; MATVEYEVA, A.Ye., tekhn.red.

[Ferrous metal types and standards; rolled shapes and gaged steel]
Sortament chernykh metallov; prokat i kalibrovannaya stal'. Izd.
ofitsial'noe. Moskva, 1959. 462 p. (MIRA 13:4)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Rolling (Metalwork))

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn. red.

[Methods for mechanical testing of metals] Metody mekhanicheskikh
ispytaniy metallov. Izd. ofitsial'noe. Moskva, 1958. 119 p.

(MIRA 11:9)

1. Russia (1923- U.S.S.R.) Vsesoiuznyy komitet standartov.
(Metals--Testing--Standards)

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Therapeutic and prophylactic drugs, medical supplies, and vitamin preparations] Lechebno-profilakticheskie sredstva, predmety sanitarii i gigieny, vitaminnye preparaty. Izd.ofitsial'noe. Moskva, 1957. 301 p. (MIRA 12:10)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(DRUGS) (MEDICAL SUPPLIES) (VITAMINS)

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Ferroalloys] Ferrosplavy. Izd.ofitsial'nce. Moskva, 1959.
148 p. (MIRA 12:9)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Alloys--Standards)

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Nonferrous metals and alloys; methods of testing] TSvetnye
metally i splavy; metody ispytani. Izd.ofitsial'noe. Moskva,
1959. 878 p. (MIRA 12:9)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Nonferrous metals--Testing)

Reshetina S. V.

PHASE I BOOK EXPLOITATION 1193

USSR Ministerstvo khimicheskoy promyshlennosti

Reaktivy i preparaty dlya laboratornykh rabot organicheskiye; tekhnicheskiye usloviya. Ch. II (Organic Reagents and Preparations for Laboratory Practice; Technical Specifications. Pt. 2.) [Moscow] Standartgiz, 1957. 182 p. 20,000 copies printed.

Ed.: Reshetina, S. V.; Tech. Ed.: Kondrat'yeva, M. A.

PURPOSE: The book is intended for chemists and laboratory technicians.

COVERAGE: The book is a manual of organic preparations used in the laboratory. Some technical specifications (TU-tekhnicheskiye usloviya) are given, namely definition, uses, quality, testing methods, storage conditions, etc. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Monobromoacetic Acid. TU MkhP 3667-55

3

Monochlorobenzene. TU MkhP 2877-54

7

Card 1/6

Organic Reagents and Preparations (Cont.)	1193	
Methyl Ester of Formic Acid. TU MkhP 101-53		9
Sodium Salicylate. TU MkhP 3112-52		13
Sodium Stearate. TU MkhP 2667-51		18
β -Naphthylamine. TU MkhP 1543-47		20
o-Nitrobenzaldehyde. TU MkhP ORU 58-56		23
p-Nitrobenzaldehyde. TU MkhP 2969-51		26
N-Nitrosodiphenylamine. TU MkhP 2751-51		29
Nitromethane. TU MkhP 2664-51		31
o-Nitrophenol. TU MkhP 91-51		33
Palmitic acid. TU MkhP 2936-51		35
Card 2/6		

Organic Reagents and Preparations (Cont.)

1193

Paraffin for Laboratory Use. TU MKhP ORU 40-55	39
Parafuchsin. TU MKhP 2800-51	41
Parafuchsin Acid. TU NKhP 2757-51	45
Pinacolin. TU MKhP 2621-51	47
Pyrogallol. TU MKhP 2710-51	49
Propionaldehyde. TU MKhP 2682-51	53
Clerici Solution. TU MKhP 3174-52	56
Griess Reagent. TU MKhP 836-53	58
Rubeane Hydride. TU MKhP 1554-52	60
Salicylaldoxime. TU MKhP 2765-51	63
Card 3/6	

Organic Reagents and Preparations (Cont.)

1193

Thioglycollic Acid. TU MKhP 4101-53	66
o-Tolidine. TU MKhP 2626-51	69
p-Toluidine. TU MKhP ORU 47-56	73
Toluenesulfonamide. TU MKhP 2625-51	77
Acetaldehyde. TU MKhP 2633-51	80
o-Phenylanthranilic acid. TU MKhP 2875-51	86
Phenylarsonic acid. TU MKhP 3226-54	89
Phloroglucine. TU MKhP 44-52	93
Fluorescein. TU MKhP 2303-55	97
Diethyl Ester of Phthalic Acid. TU MKhP 2966-54	101
Card 4/6	

Organic Reagents and Preparations (Cont.)

1193

Fuchsin Acid. TU MKhP 3546-54

104

Furfuryl Alcohol. TU MKhP 2623-51

107

o-Chlorophenol. TU MKhP 2638-51

110

Ethylenediamine Base. TU MKhP 3175-55

113

Ethylenediamine hydrochloride. TU MKhP 2872-54

118

Ethyl iodide. TU MKhP 98-51

122

SUPPLEMENT

GOST 3885-54 Reagents, Indicators and Preparations For the
Laboratory. Inspection rules, sampling, packing,
wrapping and marking

127

GOST 4212-48 Reagents. Preparation of solutions for colorimetry and
nephelometry

154

Card 5/6

Organic Reagents and Preparations (Cont.)

1193

GOST 4517-48 Reagents, Auxiliary solutions used in the analysis
of inorganic reagents

167

AVAILABLE: Library of Congress

Card 6/6

TM/fal
2-10-59

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Nonferrous metals and alloys; specifications] TSvetnye metally i
splavy; tekhnicheskie uslovia. Izdanie ofitsial'noe. Moskva,
1958. 199 p. (MIRA 12:3)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Nonferrous metals--Standards)

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Steel wire] Provoloka stal'nais. Izd.ofitsial'noe. Moskva, 1957.
223 p. (MIRA 11:1)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Wire--Standards)

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn. red.

[Organic reagents and preparations for laboratory work; technical specifications] Reaktivy i preparaty dlia laboratornykh rabot organicheskie; tekhnicheskie usloviia. [Moskva] Standartgiz. Pt.2. 1957. 182 p. (MIRA 11:7)

(Chemical tests and reagent)

RESHETINA, S.V.

BRUZE*, V.G.; KARSKAYA, T.N.; kand.khim.nauk; KOSHELEVA, G.N., kand.khim.
nauk; MALKIEL*, G.F.; POSLAVSKAYA, K.D.; UEDINOVA, N.A.; USKOVA,
L.Ye.; FLORENSKAYA, T.N.; RESHETINA, S.V., red.; MATVEYEVA, A.Ye.,
tekh.n.red.

[Organic reagents and chemicals for laboratory practice; technical
specifications] Reaktivy i preparaty dlia laboratornykh rabot
otganicheskii; tekhnicheskii usloviia. [Moskva] Standartgiz.
Pt.1. 1957. 136 p. (MIRA 11:6)

1. Russia (1923- U.S.S.R.) Ministerstvo khimicheskoy promyshlen-
nosti. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut khimiche-
skikh reaktivov Ministerstva khimicheskoy promyshlennosti (for all
except Reshetina, Matveyeva)
(Chemical tests and reagents--Standards)

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Plate, sheet, and strip carbon and alloyed steel] Listy, polosy
i lenty iz uglerodistoi i legirovannoi stali. Izd.ofitsial'noe.
Moskva, 1958. 370 p. (MIRA 12:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeri-
tel'nykh priborov.
(Steel alloys--Standards)

RESHETINA, S.V.

SOV/1532

18(6)

PHASE I BOOK EXPLOITATION

USSR. Gosudarstvennyy komitet standartov

Tsvetnyye metally i splavy; tekhnicheskiye usloviya (Nonferrous Metals and Alloys; Technical Specifications) Official ed. Moscow, 1958. 199 p. (Series: Gosudarstvennyye standarty SSSR) 6,000 copies printed.

Ed.: S.V. Reshetina; Tech. Ed.: M.A. Kondrat'yeva.

PURPOSE: This book is intended for personnel engaged in the production, utilization, and study of nonferrous metals and alloys.

COVERAGE: The book gives government specifications (GOST) for metals and alloys in various forms. Metals included are aluminum, copper, nickel, cobalt, tin, zinc, lead, cadmium, magnesium, silicon, antimony, mercury, gold, silver, platinum, palladium, iridium, and rhodium. Alloys include babbitts, bronzes, brasses, solder, and silumin. Specifications are given for such forms as ingots, powder, foil, cathodes, etc. No personalities are mentioned. There are no references.

Card 1/6

Nonferrous Metals and Alloys (Cont.)

SOV/1532

TABLE OF CONTENTS:

GOST 295-47	Aluminum for deoxidizing and production of ferroalloys. Technical specifications	3
GOST 3549-55	Primary aluminum pig	9
GOST 1209-53	Calcium babbitts. Technical specifications	13
GOST 1320-55	Tin and lead babbitts	17
GOST 493-54	Tin-free bronzes. Types	22
GOST 5017-49	Tin bronzes, for forming. Types	28
GOST 6835-56	Gold and gold alloys. Types	30
GOST 6902-56	Gold leaf	34
GOST 1467-58	Cadmium. Types and technical requirements	38

Card 2/5

Nonferrous Metals and Alloys (Cont.)	SOV/1532
GOST 546-41 Copper cathodes. Technical specifications	41
GOST 123-57 Cobalt	44
GOST 2169-43 Crystalline silicon. Classification and technical specifications	48
GOST 1067-41 Copper-nickel addition alloys. Classification and technical specifications	51
GOST 804-56 Primary magnesium pig. Classification and technical specifications	55
GOST 859-41 Copper. Classification	59
GOST 849-56 Nickel	61
GOST 860-41 Tin. Classification and technical specifications	66
GOST 8395-57 Platinum, palladium, iridium, rhodium, and their alloys. Types	70

Card 3/6

Nonferrous Metals and Alloys (Cont.)	SOV/1532	
GOST 4960-49 Copper powder		76
GOST 1534-42 Copper-zinc solders. Classification and technical specifications		80
GOST 1499-54 Tin-lead solders		82
GOST 8190-56 Silver solders		88
GOST 5494-50 Aluminum powder		95
GOST 4658-49 Mercury		105
GOST 3778-56 Lead		109
GOST 1292-57 Antimonial lead. Types and technical requirements		112
GOST 6836-54 Silver and silver-copper alloys. Types		116
GOST 6903-56 Silver leaf		118
Card 4/6		

Nonferrous Metals and Alloys (Cont.)	SOV/1532
GOST 1521-50 Silumin pig. Types and technical specifications	121
GOST 4004-52 Aluminum ingots for wire	126
GOST 193-53 Copper ingots	130
GOST 4515-48 Copper-phosphorus alloy. Classification and technical specifications	135
GOST 5235-50 Type metal, tin-base. Technical specifications	140
GOST 4784-49 Aluminum alloys for forming. Types	144
GOST 2685-53 Aluminum alloys for casting. Classification and technical specifications	150
GOST 7117-54 Antifriction alloys, zinc-base. Types	156
GOST 2581-55 Magnesium alloys, pig. Technical specifications	158
Card 5/6	

Nonferrous Metals and Alloys (Cont.)	SOV/1532
GOST 2856-55 Magnesium alloys for casting. Types	162
GOST 1019-47 Copper-zinc alloys (brasses). Classification	166
GOST 4116-48 Copper-base alloys, pig for casting of art objects. Technical specifications	168
GOST 492-52 Nickel and nickel-copper alloys. Types	172
GOST 5188-49 Type metal, tin-free. Types and technical specifications	183
GOST 1089-41 Antimony. Classification. Technical specifications	188
GOST 3640-47 Zinc. Classification and technical specifications	192

AVAILABLE: Library of Congress

Card 6/6

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PHASE I BOOK EXPLOITATION

SOV/4711

USSR. Komitet standartov, mer, i izmeritel'nykh priborov

Profil'nyye stal'nyye; sortament (Cold-Rolled-Formed Steel Sections; A Selection) Official ed. Moscow, Standartgiz, 1960. 72 p. (SSSR. Gosudarstvennyye standarty) Errata slip inserted. 15,000 copies printed.

Ed.: S.V. Reshetina; Tech. Ed.: A. Ye. Matveyeva.

PURPOSE: This booklet is an official publication of certain established standards for the use of all concerned.

COVERAGE: The booklet contains the USSR standards for ten cold-rolled-formed steel shapes. The standards were submitted by the Ministry of Ferrous Metallurgy and approved by the Committee for Standards, Measures and Measuring Instruments in January 1957. They became effective in industry July 1, 1957. No personalities are mentioned. There are no references.

Card-1/3-

RESHETINA, S.V., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Reagents and preparations used in inorganic laboratory practice;
technical specifications] Reaktivy i preparaty dlia laboratornykh
rabot-neorganicheskie; tekhnicheskie usloviia. Standartgiz, 1957.
238 p. (MIRA 11:5)

(Chemical tests and reagents--Standards)

18(0)

PHASE I BOOK EXPLOITATION

SOV/2625

USSR. Komitet standartov, mer i izmeritel'nykh priborov

Listy, polosy i lenty iz uglerodistoy i legirovannoy stali (Carbon-and Alloy-steel Plates, Sheets, Bars, and Strips) Official ed. Moscow, 1958. 370 p. (Series: USSR. Gosudarstvennyye standarty) Errata slip inserted. 10,000 copies printed.

Ed.: S.V. Reshetina; Tech. Ed.: M.A. Kondrat'yeva.

PURPOSE: This book is an official list of standards for carbon-and alloy-steel plates, sheets, bars, and strips.

COVERAGE: This book is a list of standards for carbon-and alloy-steel plates, sheets, bars, and strips. Grades, technical specifications, tables, and drawings,* for each set of standards are given, as well the year of implementation and the authority. These standards are in effect as of July 1, 1958. Changes made in previously published standards are so indicated in the text. No personalities are mentioned. There are no references.

Card 1/6

Carbon-and Alloy-steel Plates (Cont.)

SOV/2625

TABLE OF CONTENTS:

I. Plates and Sheets	5
GOST 5343 - 54, tin plate	15
GOST 7530 - 55, coiled hot-galvanized tin plate	22
GOST 1127 - 57, black polished iron plate	27
GOST 4041 - 48, quality hot-rolled carbon constructional steel plates for automobiles	34
GOST 5521 - 50, hot-rolled carbon steel for shipbuilding. Technical specifications	49
GOST 6612 - 53, steel. Blooms for locomotive frames. Technical specifications	53
GOST 3685 - 47, corrugated sheet steel	55
GOST 1386 - 47, pickled sheet steel	60
GOST 10222- 39, normal-quality manganese-steel plate for shipbuilding	67
GOST 2672 - 52, constructional steel sheet and plate for aircraft. Technical specifications	79
GOST 399 - 41, plate steel for locomotive boilers and fire-boxes. Technical specifications	

Card 2/6

Carbon-and Alloy-steel Plates (Cont.)

SOV/2625

GOST 1393 - 47,	sheet steel for roofing	85
GOST 8568 - 57,	checkered steel plate (diamond-and oval-shaped)	89
GOST 8596 - 57,	cold-rolled coiled steel. Grades	93
GOST 8597 - 57,	hot-rolled coiled steel. Grades	103
GOST 8706 - 58,	expanded steel grating	113
GOST 5520 - 50,	carbon plate steel for boilers. Technical specifications	117
GOST 3836 - 47,	low-carbon electrical sheet steel. Technical specifications	124
GOST 5497 - 50,	sheet steel for saws for cotton gins. Technical specifications	131
OST NKTP 4034,	rolled carbon-steel plate for boilers and fire boxes in river and ocean-going vessels. Technical specifications	134
GOST 5681 - 57,	rolled plate steel. Grades	142
GOST 3680 - 57,	rolled sheet steel. Grades	152
GOST 7350 - 55,	high-alloy stainless, acid-and scale-resisting plate steel	157
GOST 500 - 58,	low-alloy and carbon commercial and high-quality wide-strip (general purpose) steel plate. Technical specifications	163

Card 3/6

Carbon-and Alloy-steel Plates (Cont.)

SOV/2625

GOST 1577 - 53,	high-quality constructional carbon-steel plate. Technical specifications	165
GOST 914 - 56,	high-quality carbon constructional sheet steel. Technical specifications	171
GOST 8075 - 56,	galvanized and pickled sheet steel for roofing. Grades	180
GOST 7118 - 54,	galvanized sheet steel	183
GOST 1542 - 54,	constructional alloy-steel sheet. Technical specifications	189
GOST 5582 - 50,	stainless, acid-and scale-resisting sheet steel. Technical specifications	198
GOST 501 - 58,	low-alloy and carbon sheet steel of regular and	
GOST 6765 - 53,	three-layer steel for moldboards. Technical specifications	208
GOST 6713 - 53,	hot-rolled carbon steel and bridge building. Technical specifications	211
GOST 802 - 58,	electrical sheet steel	219
 II. Bars		
GOST 4405 - 48,	hot-rolled and forged bar tool steel flats. Grades	241
GOST 7419 - 55,	hot-rolled spring steel. Grades	248

Card 4/6

Carbon-and Alloy-steel Plates (Cont.)

SOV/2625

GOST 2052 - 53,	hot-rolled high-quality spring steel. Technical specifications	259
GOST 1530 - 42,	hot-rolled high-quality carbon steel bar	270
GOST 6422 - 52,	rolled steel bar for nuts	274
GOST 103 - 57,	rolled steel bar. Grades	281
GOST 82 - 57,	rolled general-purpose wide-bar steel. Grades	287

III. Strips

GOST 2615 - 54,	heat-resistant alloy strip with high ohmic resistance	295
GOST 6009 - 57,	hot-rolled steel strip. Grades	306
GOST 3559 - 47,	steel strip for cable armor plating	310
GOST 3632 - 47,	steel strip for bicycle and motorcycle sprocket hubs	313
GOST 3633 - 47,	steel strip for rollers of bicycle and motorcycle sprocket chains	316
GOST 1540 - 42,	hot-rolled tool steel strip	317
GOST 1543 - 42,	cold-rolled tool steel strip	322
GOST 4986 - 54,	stainless steel strip	328
GOST 503 - 41,	cold-rolled low-carbon steel strip	336

Card 5/6

Carbon-and Alloy-steel Plates (Cont.)

SOV/2625

GOST 2614 - 55,	heat-treated spring steel strip	346
GOST 3560 - 47,	packing steel strip	355
GOST 2283 - 57,	cold-rolled tool and spring steel strip.	
	Technical specifications	357
GOST 2284 - 43,	cold-rolled constructional steel strip.	363
	Technical specifications.	

AVAILABLE: Library of Congress (TA 466 .L5 1958)

Card 6/6

GO/mg
11-19-59

RESHETINA, S.V., red.; MATVEYEV, A.Ye., tekhn.red.

[Sheets, strips, and bands made of carbon and alloy steel]
Listy, polosy i lentz iz uglerodistoi i legirovannoi stali.
Izd.ofitsial'noe. Moskva, Gos.izd-vo standartov, 1960.
377 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Sheet steel--Standards)

RESHETINA, S.V. red.; KASHIRIN, A.G., tekhn.red.

[Structural glass] Steklo stroitel'noe. Izd.ofitsial'noe.
Moskva, Gos.izd-vo standartov, 1959. 26 p.

(MIRA 14:4)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Glass construction--Standards)

RESHETINA, S.V., red.; DANILOVICH, N.N., red.; AYZENSHTAT, B.I., tekhn.red.

[Steel cables] Kanaty stal'nye. Izd.ofitsial'noe. Moskva, 1960.
186 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov.
(Cables--Standards)

SOV/48-23-9-45/57

24(7)

AUTHOR: Reshetina, T. S.

TITLE: The Quantitative Spectral Analysis of Intrusive Rocks With Respect to Their Main Components

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1150 - 1151 (USSR)

ABSTRACT: The method of general standard introduced by Dennen and Fowler (Ref 1), in which one element is selected as a general internal standard for all components, which occurs on all investigated samples, is used as a basis for the method suggested here. In the present case aluminum was selected. By formula (1) the relative content of Al_2O_3 in the rocks is given. The ratios SiO_2/Al_2O_3 and MnO/Al_2O_3 were determined according to calibration curves which were constructed according to three standards. In these experiments standards and samples were pulverized and were in each case mixed with spectroscopically pure carbon powder in the ratio of 1:2. Investigations were carried out on the spectrograph of the type

Card 1/2

The Quantitative Spectral Analysis of Intrusive Rocks
With Respect to Their Main Components

SOV / 48-23-9-45/57

ISP-22; the investigated lines of the elements Si, Mn, Mg, Fe, Ti, and Ca are given. Two Al-lines served as lines of reference. The results obtained by investigations carried out on 60 samples are compared with those obtained by the chemical analysis shown in table 1, after which the reproducibility of the spectroscopic method was investigated, which was found to differ in the case of the different components. In SiO_2 , for example, reproducibility is better in the case of the chemical method, whereas in the case of Al_2O_3 , MnO , Fe_2O_3 , TiO_2 and CaO the reproducibility of the spectroscopic method is better. In the case of MgO it is approximately equally good. There are 2 tables and 1 reference.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Akademii nauk SSSR (Institute of the Geology of Ore Deposits, of Mineralogy and Geochemistry of the Academy of Sciences, USSR)

Card 2/2

RESHETINSKAYA, T. V.

Microbiology - Antibiotic and Antibiotic Resistance

1-1

Orig Jour : Ref Jour - Zh. Mikr., No 5, 1950, 1950

Author : Reshetinskaya, T.V., Tolon, L.A., Solovov, M.I.

Inst :

Title : Activity of Spice Phytoecides on Mold Fungi.

Orig Pub : Sb. nauchn. tr. Ivanovsk. s.-zh. in-za, 1950, No 13, 10-11

Abstract : Tarragon pepper, cinnamon, cloves and mustard possess fungicidal and fungistatic action in relation to *Penicillium citrinum*, *Mucor racemosus*, *Trichoderma lignorum*, and *Cladophorum herbarum*. Red and black pepper do not have these properties. In their action phytoecides of these spices delay germination of spores and spore-bearing. The fungicidal and fungistatic action increases with increased exposure.

Card 1/1

FD-324

USSR/Medicine - Nutrition

Card 1/1

Pub. 141 - 9/19

Author : Reshetinskaya, T. V.

Title : The action of certain spice phytoncides on mold fungi

Periodical : Vop. pit., 34-35, Jul/Aug 1955

Abstract : Tested the action of certain spices [red and black pepper, cloves, and cinnamon] on mold fungi. Cultures of *Mucor racemosus*, *Penicillium citrinum*, *Trichoderma lignurum*, and *Cladosporium herbarum* were allowed to reach a spore concentration of 2000-3000 spores per cubic millimeter. Portions of these cultures were then subjected to the action of the spice phytoncides, which were found to have fungicidal and fungistatic action on all four of the above molds. No references.

Institution : Chair of Veterinary-Sanitary Consultation, Ivanovsk Agricultural Inst

Submitted :

RESHETINSKIY, I.I.; BUYKO, I.D.

[Progressive technical improvements in the construction industry;
catalog of recommended literature] Tekhnicheskii progress v stroi-
tel'stve; rekomendatel'nyi ukazatel' literatury. Moskva, 1959.
36 p. (MIRA 12:11)

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(Bibliography--Building)

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L.M., tekhn. red.

[Rare metals and their use; survey of recommended literature]
Redkie metally i ikh primeneniye; rekomendatel'nyi obzor lite-
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(MIRA 14:9)

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RESHETINSKIY, Ivan Illarionovich; MOLCHANOVA, N.S., red.; KHELEMSKAYA, L.M.,
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RSSHETILSKIY, L.I., KAUFMAN, I.M., redaktor; MOLCHANOVA, N.S., redaktor;
CHERNYAK, A.Ya., redaktor; KHELEMSKAYA, L.M., tekhnicheskiy
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October Socialist Revolution. A bibliography] Mashinostroenie SSSR;
k 40-letiyu Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii.
Rekomendatel'nyi ukazatel' literatury. Moskva, 1957. 61 p.
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[Polymers are materials of unlimited possibilities; recommended literature] Polimery-materialy neogranichennykh vozmozhnostei; rekomendatel'nyi obzor literatury. Moskva, 1958. 33 p. (Novosti tekhniki, no.16) (MIRA 12:2)

(Bibliography--Plastics)

PHASE I BOOK EXPLOITATION

501

Moscow. Publichnaya Biblioteka

Mashinostroyeniye SSSR; rekomendatel'nyy ukazatel' literatury
(Machine Building in the USSR; Recommended Reading List) Moscow,
1957. 61 p. 8,000 copies printed.

Additional Sponsoring Agency: Moscow. Tsentral'naya politekhnicheskaya biblioteka

Compiler: Reshetinskiy, I.I.; Eds.: Kaufman, I.M., Molchanova, N.S., and Chernyak, A. Ya.; Tech. Ed.: Khelemskaya, L.M.

PURPOSE: This bibliographic guide is published to acquaint Soviet readers with important stages in the development of socialist machine building during the 40 years of Soviet rule as reflected in the literature. The guide may be of use to propagandists and lecturers.

COVERAGE: The first chapter enumerates V.I. Lenin's works and the documents and materials of the Communist Party and the Soviet government containing important resolutions on the role

Card 1/4

Machine Building in the USSR; Recommended Reading List	501
New developments in machine building technology	27
Founding	28
Forging and stamping	29
Machining of metals	31
Heat treatment of metals. Welding of metals	34
Electric methods of working metals. Ultrasonics in metal technology	35
Achievements of Different Branches of Machine Building	38
Heavy machine building	38
Machine-tool building	42
Instrument manufacture	46
Transportation equipment building	49
Automobile manufacture	52

Card 3/4

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recommended literature] Khimiia v bor'be za urozhai; rekomen-
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Lenina, 1960. 22 p. (Novosti nauki i tekhniki, no.25).
(MIRA 13:9)

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RESNETILSKII, Konstantin Valerianovich; SHENTSIIS, Ye.N., red.

[The system of material balances; material balances in statistics] Sistema material'nykh balansov; material'nye balansy v statistike. Moskva, Statistika, 1965. 63 p.
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(Slide rule)

SHIL'NIKOV, V.I.; RESHETKIN, V.I.

"Methodological directions." No.14: Aerial observations of sea ice.
Reviewed by V.I.Shil'nikov, V.I.Reshetkin. Okeanologiya 1 no.4:
773-774 '61. (MIRA 14:11)

(Sea ice)

L 7992-66 EWT(1)/T/EED(b)-3/EWA(c) IJP(c)

ACC NR: AP5026562

SOURCE CODE: UR/0286/65/000/019/0125/0125

AUTHORS: ³Kryzhanovskiy, I. I.; ^{44.55}Reshetkin, V. I.

ORG: none

^{20.14.51}
TITLE: High speed motion picture camera of the driven type. Class 57, No. 175392

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 125

TOPIC TAGS: photographic equipment, photographic lens, high speed photography, motion picture photography

ABSTRACT: This Author Certificate presents a high speed motion picture camera of the driven type with the mirror development of the image along the arc of a moving ray. The camera contains a closed ring of lenses with rectangular horizontal section (see Fig. 1). To increase the light gathering ability of the lenses and to provide a more effective utilization of the film, the optical foci of the lenses are placed asymmetrically in respect to the short sides of the rectangle. The lenses are so mounted in the holder that their optical axes intersect at the center of the revolving mirror, while their optical foci form two checkerboard-staggered rows.

Card 1/2

UDC: 778.534.83

L 7992-66

ACC NR: AP5026562

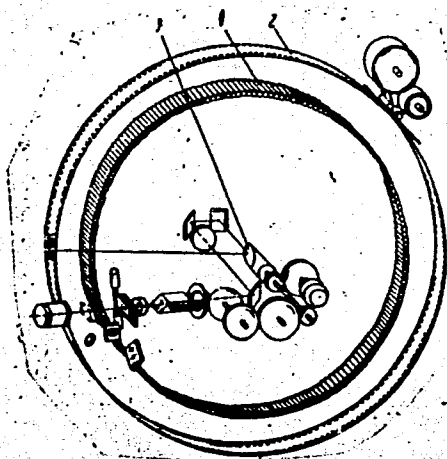


Fig. 1. 1- ring of lenses; 2- film; 3- mirror

Orig. art. has: 1 figure.

SUB CODE: IE/ SUBM DATE: 14May64

Card 2/2nw

CA 9

PROCESSES AND PROPERTIES INDEX

Plastic deformation and surface fatigue of hardened steel in antifriction bearings. L. V. Altshuler, N. A. Reshetkina, A. G. Spektor and B. A. Tsukerman. *J. Tech. Phys.* (U. S. S. R.) 13, 266-80(1948).—With the aid of a special axial camera, an x-ray analysis was made of chrome steel balls, 18 mm. in diam., initially hardened in oil at 830° and tempered for 3 hrs. at 150°; the structure was that of tetragonal martensite with traces of residual austenite; the surface hardness 60 to 64 Rockwell C. Alternating contact compressions in the working surface of the ball bring about plastic deformation of the martensite grains giving rise to two axially symmetrical orientations of the crystallites —[111] and [001], the axis being perpendicular to the surface of the ball and coinciding with the direction of the contact compressions. The surface hardness of the balls increased by 4 to 7 Rockwell units. The max. of hardness is located at the surface. It is concluded that the mechanism of plastic deformation in iron remains unchanged in hardened high-C steel.

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AS 514 METALLURGICAL LITERATURE CLASSIFICATION

SECTION ONE

SECTION TWO

SECTION THREE

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION SEVEN

SECTION EIGHT

SECTION NINE

SECTION TEN

SECTION ELEVEN

SECTION TWELVE

SECTION THIRTEEN

SECTION FOURTEEN

SECTION FIFTEEN

SECTION SIXTEEN

SECTION SEVENTEEN

SECTION EIGHTEEN

SECTION NINETEEN

SECTION TWENTY

SECTION TWENTY ONE

SECTION TWENTY TWO

SECTION TWENTY THREE

SECTION TWENTY FOUR

SECTION TWENTY FIVE

SECTION TWENTY SIX

SECTION TWENTY SEVEN

SECTION TWENTY EIGHT

SECTION TWENTY NINE

SECTION THIRTY

SECTION THIRTY ONE

SECTION THIRTY TWO

SECTION THIRTY THREE

SECTION THIRTY FOUR

SECTION THIRTY FIVE

SECTION THIRTY SIX

SECTION THIRTY SEVEN

SECTION THIRTY EIGHT

SECTION THIRTY NINE

SECTION FORTY

SECTION FORTY ONE

SECTION FORTY TWO

SECTION FORTY THREE

SECTION FORTY FOUR

SECTION FORTY FIVE

SECTION FORTY SIX

SECTION FORTY SEVEN

SECTION FORTY EIGHT

SECTION FORTY NINE

SECTION FIFTY

SECTION FIFTY ONE

SECTION FIFTY TWO

SECTION FIFTY THREE

SECTION FIFTY FOUR

SECTION FIFTY FIVE

SECTION FIFTY SIX

SECTION FIFTY SEVEN

SECTION FIFTY EIGHT

SECTION FIFTY NINE

SECTION SIXTY

SECTION SIXTY ONE

SECTION SIXTY TWO

SECTION SIXTY THREE

SECTION SIXTY FOUR

SECTION SIXTY FIVE

SECTION SIXTY SIX

SECTION SIXTY SEVEN

SECTION SIXTY EIGHT

SECTION SIXTY NINE

SECTION SEVENTY

SECTION SEVENTY ONE

SECTION SEVENTY TWO

SECTION SEVENTY THREE

SECTION SEVENTY FOUR

SECTION SEVENTY FIVE

SECTION SEVENTY SIX

SECTION SEVENTY SEVEN

SECTION SEVENTY EIGHT

SECTION SEVENTY NINE

SECTION EIGHTY

SECTION EIGHTY ONE

SECTION EIGHTY TWO

SECTION EIGHTY THREE

SECTION EIGHTY FOUR

SECTION EIGHTY FIVE

SECTION EIGHTY SIX

SECTION EIGHTY SEVEN

SECTION EIGHTY EIGHT

SECTION EIGHTY NINE

SECTION NINETY

SECTION NINETY ONE

SECTION NINETY TWO

SECTION NINETY THREE

SECTION NINETY FOUR

SECTION NINETY FIVE

SECTION NINETY SIX

SECTION NINETY SEVEN

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(PNEUMONIA) (CYANOCOBALAMINE--PHYSIOLOGICAL EFFECT)
(LIVER) (PROTHROMBIN)

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4
4E3a
4E2c

18
1. V381. CORROSION RESISTANCE OF METALS IN PETROLEUM GASES CONTAINING
HYDROGEN SULPHIDE. Nikiforova, V.M. and Reshetkina, N.A. (Metalloved.
Obrabot. Metall. (Metals & Treat. Metals, Leningrad), May 1957, 55-62).
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petroleum gases containing hydrogen sulphide.

B.T.R.

RB
MT

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Studying the nature and causes of cracking of steam-turbine
disks. Trudy TSNITMASH 92:73-82 '59. (MIRA 12:8)
(Steel--Corrosion)
(Disks, Rotating--Testing)

NIKIFOROVA, V.M., kand. tekhn. nauk; YEREMIN, N.I., kand. fiz.-mat. nauk;
RESHETKINA, N.A., inzh.; YEVGRAFOV, A.V., inzh.

Using high-frequency electric-resonance apparatus in determining
the tendency of steel to intergranular corrosion. Trudy TSNIITMASH
92:83-92 '59. (MIRA 12:8)
(Steel--Corrosion) (Electronic instruments)

NIKIFOROVA, V.M., kand. tekhn. nauk; RESHETKINA, N.A., inzh; SMUROV, V.S.,
inzh.

Studying breakdown characteristics of carbon disulfide furnaces
and investigating corrosion resistance of various materials under
operating conditions. Trudy TSNIITMASH 92:158-178 '59.

(MIRA 12:8)

(Iron--Corrosion) (Carbon disulfide)

NIKIFOROVA, V.M., kandidat tekhnicheskikh nauk; RESHETKINA, N.A., inzhener.

Investigating the EIALT steel for corrosion cracking in hydrogen sulfide solutions. [Trudy] TSNIITMASH no.77:79-102 '55, (MIRA 9:7)
(Steel alloys--Corrosion)

RESHETKINA, N A.
18(7)

SOV/2296

PHASE I BOOK EXPLOITATION

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya
Korroziya i zashchita metallov v mashinostroyeni (Corrosion and Protection
of Metals in the Machine-building Industry) Moscow, Mashgiz, 1959. 347 p.
(Series: Its: [Sbornik] kn. 92) 3,500 copies printed.

Ed.: A. V. Ryabchenkov, Doctor of Chemical Sciences, Professor; Ed. of Publish-
ing House: A. I. Sirotin, Engineer; Tech. Ed.: B. I. Model'; Managing Ed. for
Literature on Heavy Machine Building (Mashgiz): S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for designers, technologists,
and industrial and research workers concerned with corrosion and corrosion
protection of metals.

COVERAGE: This collection of articles deals with problems of corrosion and metal
protection under investigation at TsNIITMASH during the past two years. The
articles discuss stress corrosion, intergranular corrosion, scale and heat
resistance of austenitic steels in gaseous media, protective coating, fret-
ting corrosion, and resistance of metals to cavitation. No personalities are

Card 1/7

protection (Cont.)

mentioned. References follow each article.

SOV/2296

TABLE OF CONTENTS:

PART I. STRESS CORROSION AND INTERGRANULAR CORROSION OF METALS

Ryabchenkov, A.V. [Doctor of Chemical Sciences, Professor], V.M. Nikiforova [Candidate of Technical Sciences], and V.F. Abramova [Engineer]. Methods of Microelectrochemical Investigation of Stress Corrosion of Metals. The authors developed instruments and a method for determining electrode potentials of metal structural components and electrochemical heterogeneity of a metal surface under tension in an electrolyte solution. 5

Ryabchenkov, A. V., and V.M. Nikiforova. Role of Electrochemical Factors in the Process of Corrosion Cracking of Austenitic Steels. The authors study the cracking of high-alloy austenitic steels under the simultaneous effect of static tensile stresses and the corrosive medium of an electrolyte solution. 19

Sidorov, V.P. [Engineer], and A.V. Ryabchenkov. Investigating the Effect of Certain Factors on the Corrosion Cracking of Austenitic Boiler Steels. The authors discuss the methods employed as well as the effects of mechanical stresses, of composition and concentration of solutions, of temp- 42

Card 2/7

Corrosion and Protection (Cont.)

SOV/2296

erature, and of heat treatment on corrosion cracking of austenitic boiler steels.

Nikiforova, V.M., and N.A. Reshetkina [Engineer]. Study of the Nature and Causes of Cracks in Steam Turbine Disks
The authors attribute such phenomena to the salt and alkali content of steam.

73

Nikiforova, V.M., N.I. Yaremin [Candidate of Physical and Mathematical Sciences], N.A. Reshetkina, and A.V. Yevgrafov [Engineer]. Method of Determining the Tendency of Steel Toward Intergranular Corrosion by Utilizing High-frequency Resonance Instruments

PART II. GAS CORROSION AND ITS EFFECT ON THE HEAT-RESISTANCE PROPERTIES OF AUSTENITIC STEELS

83

Davidovskaya, Ye.A. [Candidate of Technical Sciences], and L.P. Kestel' [Engineer]. Scale-resisting Alloy Steels in Different Gas Media
The authors discuss the mechanism of high-temperature oxidation of irons and steels in gas media, including temperatures, oxide films of austenitic steels, and rates of corrosion.

93

Card 3/7

Corrosion and Protection (Cont.)

SOV/2296

Kestel', L.P., and Ye.A. Davidovskaya. Effect of a Concentration of Sulfur Dioxide and Steam on the Corrosion of Austenitic Steels at High Temperatures

109

Davidovskaya, Ye.A. Long-time Rupture Strength of Alloy Steels in Superheated Steam

125

The author investigates the behavior of EYalT and EI724 steels under the effect of steam at 575° to 610°C.

Maksimov, A.I. [Engineer], P.V. Sorokin [Engineer], and S.G. Vedenkin, [Professor]. Effect of Corrosive Gas Media on Long-time Rupture Strength of Austenitic Sheet Steels

139

The present investigation was made by the authors to determine the effect of fuel combustion products on three different cast steels used in gas turbine construction.

Nikiforova, V.M., N.A. Reshetkina, and V.S. Smurov [Engineer]. Study of Decay and Corrosion Resistance of Various Materials for Carbon Bisulfide Retorts Under Operating Conditions

158

The authors make recommendations for the most suitable metals for inner and outer linings of carbon bisulfide retorts.

Card 4/7

Corrosion and Protection (Cont.)

SOV/2296

Kovalev, Ye.A. [Engineer], and S.G. Vedenkin. Effect of Vanadium Contained in Heavy Fuel on Scale and Heat Resistance of Alloys Used in Gas Turbines. The authors present a survey of Soviet and non-Soviet literature on this subject and discuss methods of investigation. 179

PART III. PROTECTIVE COATINGS

Rykova, A.V. [Candidate of Technical Sciences], E.F. Zommer [Candidate of Technical Science], V.Ye. Khromov [Engineer] and Ye.I. Ruday [Senior Technician]. Investigating the Possibility of Applying Wear-resistant Chrome Plating to Worm Gears 210

Investigation is made on the basis of the similarity to the process of porous chrome plating of piston rings, cylinder sleeves of combustion engines, and other parts working under high friction.

Khromov, V.Ye. Effect of Chrome Plating on the Wear Resistance of Mat- ing parts 224

The author studies the effect of cathodic current density and temperature of the electrolyte on the wear resistance of the deposit and the plated insert.

Card 5/7

Corrosion and Protection (Cont.)

SOV/2296

Rykova, A.V., and Ye.I. Rudaya. Zinc Phosphate Electroplated Covering and Its Protective Properties 232
The authors obtained zinc phosphate deposits from acid and alkali electrolytes. They describe the properties and characteristics of these deposits.

Rykova, A.V., I.A. Bilatov [Engineer], and D.M. Vedeneyev [Technician]. 238
Chrome-plating Large Plates
The authors describe the experimental sectional chrome plating of 6000 x 1500 x 50 mm. plate by means of conventional industrial generators.

Rykova, A.V., and V.P. Osipova [Engineer]. Electroplating for Protection of Equipment in Tropical Climate (Survey of Non-Soviet Research) 244

Leskov, A.E. [Engineer]. Protective Scale-resistant Ceramic Coating (Survey of Literature) 261

Card 6/7

Corrosion and Protection (Cont.)

SOV/2296

PART IV. INVESTIGATIONS OF FRETTING CORROSION AND CAVITATION

Ryabchenkov, A.V., and O.N. Muravkin [Candidate of Technical Sciences].
Fretting Corrosion of Metals and Methods of Prevention

273

The authors discuss information on fretting corrosion obtained
from non-Soviet sources, mostly English.

Timbulatov, M.G. [Candidate of Technical Sciences], and N.F. Bocharnikov
[Candidate of Technical Sciences]. Corrosion and Cavitation Resistance of
Some Copper-base Alloys

332

The authors discuss an investigation of a copper-base alloy developed
by TsNIITMASH and give the chemical composition.

AVAILABLE: Library of Congress

Card 7/7

GO/fal
10-19-59

5(1), 18(7)

AUTHORS: Nikiforova, V. M., Reshetkina, N. A., Smurov, V. S. SOV/64-59-1-18/24

TITLE: A Study of Corrosion in Carbon Disulphide Retorts
(Izucheniye korrozii serouglerodnykh retort)

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 1, pp 79-84 (USSR)

ABSTRACT: Carbon disulphide (I) which is much used in the manufacture of synthetic fibers is produced by direct synthesis from sulphur and coal (850-900°) in thick-walled retorts made of sulphurous cast iron or of steel 25L. As up to now there is no clear explanation for the fast destruction of these retorts, the present investigation concerned the kind of destruction in the gasification channels after an operation period of 106 to 216 days. The observations made as well as the chemical analyses (Table 1) lead to the statement that the principal causes of the short life of these retorts are to be found in a double-sided - outside and inside - intense corrosion on one hand, and in a variation of the metal structure caused by temperature changes on the other hand. Investigations of different metal samples were carried out. The samples of a silicic cast iron were obtained from the TsNIIT where parallel experiments on the technological and mechanical

Card 1/3

SOV/64-59-1-18/24

A Study of Corrosion in Carbon Disulphide Retorts

properties of these steels were carried out by P. S. Durasov (deceased) and N. N. Aleksandrov. The individual metal samples were left in the retorts during the reaction for 60, 94 and 212 hours, and then the corrosion was determined by measuring the loss in weight. After the 212-hour test, all metal samples would have to be assigned to group VI ("non-resistant") according to GOST 5272-50 except for the makhroti alloy (chromium-manganese steel) which belongs to group V. According to the absolute rate of corrosion, the metal samples can be divided into 4 groups: Most resistant are makhroti and fekhral (chrome aluminum steel). The second group includes the chrome steels Kh6S, Kh6M, Kh12YuS, Kh17, Kh25, Kh25T (Cr = 6 - 25%), the corrosion resistance proportionally increasing with the chromium content. The third group comprises the poorly alloyed steels 30KhGS, 40KhN, 40KhNM, 35KhN2M and the steel 25L which is poor in carbon. The fourth group shows a particularly weak corrosion resistance, i.e. the highly alloyed chrome-nickel steels 16-13-3T, EI-257, EI-405 and 1Kh18N9T. The corrosion resistance of cast iron proved to be higher than that of the major part of steels. Particularly resistant are the silicic cast-iron types (Si 4.59-5.61%). Tables of the

Card 2/3

A Study of Corrosion in Carbon Disulphide Retorts SOV/64-59-1-18/24

steels and cast-iron types with indication of their chemical composition are given (Tables 1, 2). Further experiments were made in the heating chamber (outside corrosion of retorts), and it was found that at temperature 980° and at 1200° the corrosion resistance of the steel and cast-iron types (Tables 5, 6) was low. The steels fekhral, Kh25, Kh25T and Kh17 were most resistant at 1200°. Among the cast-iron types, a cast-iron with 28% Cr offered the best results. A table of the chemical and spectrum analyses of the corrosion products after the tests in the retort is given (Table 4); it shows that a saturation of the metal surface with sulphur and carbon takes place. The analysis of the products of combustion of the generator gas in the heating chamber was carried out by the Soyuzteplostroy, and 2-4% oxygen were determined instead of the 0.2% permitted according to T.U. There are 6 tables and 4 references, 1 of which is Soviet.

Card 3/3

AUTHORS: Nikiforova, V.M., Candidate of Technical Sciences, 621
and Reshetkina, N.A., Ing. (TsNIITMASH).

TITLE: Corrosion stability of metals in a petroleum gas medium
containing H_2S . (Korroziionnaya stoykost' metallov v
srede neftyanogo gaza, soderzhashchego serovodorod).

PERIODICAL: "Metallovedenie i Obrabotka Metallov" (Metallurgy and
Metal Treatment), 1957, No.5, pp.55-62 (U.S.S.R.)

ABSTRACT: The aim of the work described in this paper was to find
materials which are corrosion resistant, do not develop
corrosion cracks and are suitable for manufacturing
equipment operating in a petroleum gas medium which also
contains H_2S . The corrosion stability of a number of
metals with various protective coatings was investigated
in petroleum gas and also the ability of some steels to
withstand simultaneously the chemical effects of the
medium containing H_2S and of tensile stresses. The
influence was investigated of the composition of the
air- H_2S mixture on the corrosion of the metal under a
film of moisture and it was found that the corrosion
speed is highest for a 1 to 2% H_2S content in the air;
the thereby forming film of corrosion products does not
possess protective properties. The corrosion stability
was investigated in a petroleum gas containing between
0.1 and 8% H_2S under laboratory conditions as well as
under operating conditions. The laboratory investigations

Card 1/3

621

Corrosion stability of metals in a petroleum gas medium containing H_2S . (Cont.)

were carried out on a test set-up as shown in Fig.1, p.56, with town gas to which 8 vol.% of H_2S was added. The results of the laboratory tests are plotted in four graphs of Fig.2 and entered in Table 1, p.58. The results of tests under operating conditions obtained for test durations of about 2500 hours are summarised in Table 2, p.59. The tendency of the metal to develop corrosion cracking was also investigated and the results are plotted in Fig.3, p.60 and entered in Table 3, p.61. The corrosion stability of materials inside a petroleum gas depends to a considerable extent on the H_2S and the moisture contents. In view of the 100% relative humidity and the high content of H_2S , the laboratory tests were considerably more stringent than normal operating tests in which the relative humidity and the H_2S contents are lower. Of the investigated materials, silicon cast iron had the highest corrosion resistance, chromium cast iron and also cast iron containing 9% Al have a higher strength than grey iron and can be classified to the fourth Ball of the scale of corrosion stability. Chromating of cast iron and steel increases appreciably their corrosion resistance, whilst Zn coating and alitizing do not give positive results. In the cold worked state the steel 1X18H9T (0.11% C, 1.20% Mn, 0.42% Si, 17.9% Cr, 10.06% Ni, 0.50% Ti, 0.021% S and 0.02% P) is suitable

Corrosion stability of metals in a petroleum gas medium ⁶²¹
containing H₂S (Cont.)

for manufacturing springs in spite of the fact that
it has a certain tendency to develop corrosion
cracking. 3 figures and 3 tables. 6 Russian, 2
American references.

Card 3/3

Reshetkina, N. A.

USSR.

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